

# MEASLES UPDATE

## National Immunization Program (NIP), Centers for Disease Control & Prevention Measles Activity in U.S. through Week 53 (ending Jan 3, 2004)

No. of confirmed measles cases reported to MMWR for 2003:	42
No. of confirmed measles cases reported by Week 53, 2002:	44
No. of confirmed measles cases reported to NIP to date:	57
Total U.S. outbreaks (3 or more linked cases) in 2003	3

As of MMWR Week 53, 2003, 42 cases of measles had been reported compared to 44 cases reported by Week 53 of 2002. The National Immunization Program (NIP) was notified of 57 confirmed cases in 14 states for 2003 as of January 21, 2004. All confirmed cases (N=57) are listed by rash onset date in the table below. **New cases** reported to MMWR or to NIP are in **BOLD**. Fifteen confirmed cases have not been reported to MMWR but are listed below. Eighty-one percent of cases were import-associated (includes 24 imported cases, 20 linked to an import, and 2 others with an imported genotype).

Note: See last page for Rubella and Mumps reporting during 2003.

Send any questions or comments to Dr. Mark Papania, Team Leader for Measles Mumps Rubella Activity at the National Immunization Program or to Ms. Susan Redd at NIP via e-mail to: [sbr1@cdc.gov](mailto:sbr1@cdc.gov); phone (404) 639-8763/8761; or fax (404) 639-8665. We appreciate knowing of any new Measles-Mumps-Rubella activity in your project area. For measles genotyping results, new publications, press releases etc., please visit the CDC Measles Lab website: <http://www.cdc.gov/ncidod/dvrd/revb/measles/>

#	Proj	Age /dob	Rash onset Date	Vax hx	Spread Cases?	Reported To MMWR?	Viral Specimens Received at CDC	MEASLES CONFIRMED as of 1-21-04 Comments / Source Information
01 IMP	NYC	24-yr-old	1/19/03	Unk	No	<b>No</b> , but EPO working On problem w/netss	No	Single IMPORT/Philippines Foreign visitor arrived in NYC on 1/17/03. Known exposure to measles in the Philippines.
02 IMP	AZ	4-yr-old female	1/27/03	No	No	Yes	Yes, Unsuccessful	Single IMPORT/Thailand Maricopa Co. resident returned to U.S. on 1/23/03 after 7-wk stay in Thailand.
03 unk	MI	25-yr-old female	1/27/03	Yes, @15 mos	No	Yes	No	Possible 2- case chain with source unknown – Works in medical setting (Washtenaw Co)
04 unk	MI	10-mo-old female	1/29/03	No	No	Yes	Yes, unsuccessful	Unknown source – possible common source of infection as above case (25 yr old in MI).
05 IMP	IL	11-mo-old	3/7/03	No	No	<b>No</b> , but EPO working On problem w/NETSS	Yes, Unsuccessful	Single IMPORT in an 11-month-old. This U.S. born child was in India from 1/24 to 3/8/03, returning to U.S. 1 day after rash appeared. Three return flights involved over 3/7-8. Child went directly to MD's office then admitted.
06 IMP	HI	20-mo-old	3/20/03	No	No	Yes	No	Import from American Samoa in Honolulu
07 IMP	PA	17 yr old male	3/21/03	Yes, 2	Yes, 10 in outbreak	Yes	No	IMPORT from Lebanon. Source for Delaware County, PA outbreak at private boarding school (grades 7-12). Born in Egypt; lived in Saudi Arabia and Egypt; vaccinated in Egypt 7/23/86 & 8/7/99.
08 IMP	HI	20-yr-old female	3/24/03		No	Yes	No	Japanese tourist in Oahu (Waikiki)
09 IMP	OH	36 yr old male	3/24/03	Yes, 1 dose	Yes, his 11-mo-old child	Yes	No	This IMPORT traveled to Paris then Rome during 3/6 to 3/14. Rash onset 10 days after return to U.S. He is the source of infection for his unimmunized 11 mo-old child (IgM+ 11-mo-old with rash onset 4/3 below. Imported 2-case chain
10 trac	PA	13 year old male	4/1/03	No, relig exemption	Unk	Yes	Yes, Unsuccessful	Private boarding school outbreak. Traceable to Import – lives in same dorm as Source case1 (import from Lebanon). Unimmunized student, religious exemption. Hospitalized 7 days.
11 trac	PA	13 year old male	4/2/03	No, relig	Unk	Yes	Yes, D4	Private boarding school outbreak. Traceable to import – lives in same dorm as

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				exemption			outbreak	Source Case 1 (Lebanon). Unimmunized student with religious Exemption. Hospitalized 7 days.
12 trac	OH	11-mo-old male	4/3/03	No	Unk	Yes	No	Traceable to an import. 2-case chain with imported source.
13 trac	PA	26 year old male; dob 4/76	4/3/03	Yes, 1 dose	Unk	Yes	No	Private boarding school outbreak. Houseparent of Source case 1; hx of 1 dose. Vaccination history verified by his school record showing 1 dose on 5/11/77 (@ 12 mos). Traceable to import.
14 trac	PA	16-yr-old male	4/5/03	Yes, 2	Unk	Yes	Yes, Unsuccessful	Outbreak related. Traceable to imported case. This student had rec'd 2 doses of vaccine in Egypt on 11/8/92 and 12/6/97. No international travel.
15 trac	PA	17-yr-old male	4/5/03	Yes, 2 in U.S.	Yes, 1 spread	Yes	No	Outbreak related Traceable to import Travel to NYC; infected baby in NYC
16 unk	NYS	39-yr old male (5/63)	4/9/03	Unk	No	Yes	Yes, Unsuccessful	Source unknown; lives in Nassau Co. Works for an import goods co. in NYC
17 trac	PA	18 yr old male	4/12/03	Yes	No	Yes	Yes, unsuccessful	Outbreak related Delaware Co. Traceable to import.
18 trac	PA	17 yr old male	4/14/03	Yes	No	Yes	Yes, Unsuccessful	Outbreak related Delaware Co. Traceable to import.
19 trac	PA	18 yr old male "I.U."	4/15/03	Yes	No	Yes	Yes, D4	Outbreak related Delaware Co. Traceable to import Doses said to have been given in Mexico
20 IMP	CA	22-yr-old male	4/16/03	No, PBE	No	Yes	Isolate Rec'd, D7	Single IMPORT from Italy U.S. resident. Returned from Italy to San Francisco on 4/13/03
21 trac	NYC	13 mo old male	4/18/03	No	Yes	<b>No, EPO working On problem</b>	Yes, D4	Outbreak related Delaware Co. PA Infected by PA student in NYC on 4/5
22 trac	NYC	33 yr old female	4/29/03	No	No	<b>No, EPO working On problem</b>	No	Outbreak related Delaware Co., PA Russian immigrant who lives in same building with NYC 13 mo old w/rash 4/18/03
23 unk	HI	49 yr old male	4/20/03	Unk	Yes, 2	Yes	No	Outbreak of 3 in Honolulu family Source unknown. Index works in airline catering
24 IMP	NC	1 yr old female	4/23/03	Unk	Unk	Yes	No	Single Import from India in Hoke County Resides in USA, sick after return pm 4/19 Following 5 week stay in India; no day-care No siblings; Lab draw 4/28; rubella negative
25 unk	HI	9 mo old female	4/28/03	No	Unk	Yes	No	Outbreak related in Honolulu Infected by 49-year-old w/onset 4/20
26 unk	HI	26 yr old male	5/3/03	Unk	Unk	Yes	No	Outbreak related in Honolulu Infected by 49-year-old w/onset 4/20
27 unk	HI	44 yr old female	5/4/03	Unk	Unk	Yes	No	Not linked to above 3-cases in Honolulu. Person works in a gift shop in tourist area.
28 unk	HI	43 yr old female	5/13/03	Unk	Unk	Yes	No	No direct link to above 3- cases in Honolulu. Caregiver for elderly couple. Source unknown
29 unk	NYS	39 yr old male	5/26/03	Unk	No	Yes	No	Tompkins County, U.S. resident, no source identified. Hosp 4 days, URI, fever of 105, rash 8 days. IgM+ at state and private lab Viral specimen collected 14 days out (urine)
30 IMP	CA	75-yr-old male	5/27/03	No	No	<b>No</b>	Yes, D6	Foreign born arrived from Israel on 5/14/03 Patient DIED from complications; Genotyping: D6
<b>31 IMP</b>	<b>CA</b>	<b>3-year-old male</b>	<b>7/5/03</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>U.S. resident returning from Philippines Hospitalized</b>
32 viru	HI	16 mo old	7/13/03	No		Yes	Yes H1	Marshallese child born in US No travel to Marshall Islands; virus only

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33 trac	HI	17 yr old female	7/16/03	No		Yes	No	Sisters living in Oahu. Same onsets as early cases in RMI outbreak. Sisters had attended Church conference.
34 trac	HI	13 yr old female	7/15/03	No		Yes	No	Sisters living in Oahu Same onsets as early RMI
35 viru	HI	12 mo old	7/23/03	No		Yes	Yes, H1	Listed as Samoan Virus only case
36 IMP	OR	22 yr old male	8/1/03	No		Yes, Should be import	No	Import/Foreign exchange student from Japan visiting College in Oregon. Two-case chain –see 2 <sup>nd</sup> Japanese student
37 IMP	NYC	38 year old female	8/4/03	Unk		No	Yes, D7	Import/German visitor arrived NYC 7/28/03 from Frankfurt via Milan
38 IMP	HI	21-year-old female 'BM'	8/7/03			Yes	No	Import Marshalls - OUTBREAK
39 IMP	GA	12-yr-old male	8/11/03	Yes, 1dose		Yes	Yes, unsuccessful	Import/Visitor from Nigeria Lithonia (DeKalb County) Hospitalized; arrived ATL 8/7/03
40 IMP	OR	21 yr old female	8/14/03	After exp		Yes, Should be Import	Yes, unsuccessful	Import/Japan student visiting College in Oregon ; link to above Japanese Import; 2-case Chain
41 IMP	HI 'LJ'	10 mo old female	8/16/03	No		Yes	H1	IMPORT, Arrived in Honolulu from Marshalls (Vaccinated 1 day prior) Marshallese
42 trac	HI	18 yr old female	8/27/03			Yes,	H1	Marshallese Honolulu Southern Adoption
---	CA	20-yr-old male	8/25/03	Yes, 1 dose		<b>Quebec Reporting Morbidity --not Calif</b>		On plane with Marshallese import from Majuro to Honolulu (above w/rash 8/16). Flight was on 8/15. This student traveled to Canada while ill from Oakland to JFK to Burlington, VT then bus to Montreal.
43 trac	HI	2-yr old m "TJB"	8/27/03			Yes	H1	<b>Marshallese, Honolulu</b>
44	NJ	5-mo-old	8/28/03	No		Yes	No	<b>Indigenous</b>
45	NJ	11 mo-old	Unk	No		NO	No	<b>Import to be reported , U.S. resident Returning from extended stay in Philippines</b>
46 IMP	OR	49 yr-old male	8/26/03			Yes	No	IMPORT, visitor from Switzerland
47 trac	HI	17 yr old female	8/27/03	No		Yes		Marshallese, Honolulu Outbreak related (Southern Adoptions)
48 trac	HI	3-mo-old female	8/30/03	No		Yes	H1	Marshallese, not imported Outbreak related
49 trac	HI	10 mo-old	9/6/03	No		Yes	H1	Outbreak related
50 trac	HI	11 mo-old	9/12/03	No		Yes	H1	Outbreak related
51 trac	HI	7 mo old	9/11/03	No		No	H1	Outbreak related
52 IMP	HI	10 mo old	9/12/03			Yes	Yes, Unsuccessful	Import, Outbreak related
53 IMP	CA	46 yr old female	10/3/03	Unk	No	No	No	<b>U.S. resident /ASIA</b>
54 IMP	CA	53 yr old female	11/14/03	Unk	No	No	No	<b>US resident departed Hong Kong on Nov 6, rash onset Nov 14 in Alameda County. Known exposure to measles in Hong Kong.</b>
55 IMP	MD	10 yr old female	12/12/03	No	Unk	No	No	<b>US resident returned 12/14/03 from a month-Long visit in India. Rash 2 days prior to arrival at Dulles Airport.</b>
56 unk	NH	47 yr old female	12/17/03	Unk	No	No	No	<b>US resident works in hotel kitchen Too late to collect viral specimen Source unknown; patient hospitalized</b>
57 IMP	WI	6 mo old adoptee	12/18/03	No	Unk	No	No	<b>Adoptee from Siberia Flew Frankfurt to Chicago to Milwaukee, Wisconsin on 12/21/03</b>

ALL 2003 Measles Outbreaks (3 or more linked cases)					Shaded= IMPORTED source	
	Proj	Location(s)	1 <sup>st</sup> & Last Rash Onsets	# Conf Cases	Age Range	Comments
1	PA & NYC	Delaware Co. PA, NYC, NY	3/21/03 – 4/28/03	11 9 PA 2 NYC	13 months to 33 years; majority (8) are teenaged students in in PA	Source is Lebanon. Outbreak setting is a private residential school in PA (8 teenagers & 1 staff) plus 2 spread cases in NYC (13 mo old exposed in drs. Office and a 33 years spread from 13 month old in apartment building).  Genotype = D4
2	HI	Honolulu	4/20/03 - 5/3/03	3	49 years 9 months 26 years	Source is unknown No viral specimens collected. Three relatives. The 49-yr-old male works for airline caterers.
3	HI	Honolulu	7/13/03 – 9/12/03	14	3 months to 21 years	14 cases since Mid July (Republic of Marshall Islands outbreak began simultaneously). Includes 3 imports from Republic of Marshall Islands and 2 cases with virus suggestive of import. Genotype = H1
<b>Note: Provisional total of 828 cases occurred in the Republic of Marshall Islands (RMI) during 7/13/03 to 11/7/03; 85 hospitalizations and 3 deaths were reported in RMI. Outbreak cases ranged in age from 2 weeks to 43 years; 40% of cases were less than 5 years of age. Genotype = H1.</b>						

### **Week 53 – Rubella, CRS & Mumps in the U.S.**

**1/21/04**

**Rubella** – 7 cases were reported to MMWR for 2003. Four case records are netss errors and will or have been deleted as of Jan 23, 2004. NIP was notified of 3 confirmed rubella for 2003 by Colorado (1); Hawaii (1); and New Jersey (1).

State	County	Age/sex	eventdate	Import status	Country of birth
CO	Arapahoe Co.	21 year old female	12/26/02	Indigenous	USA
HI	Honolulu Co.	14 year old male	2/01/03	Indigenous	Taiwan
MS	Lowndes Co.	17 year old female	2/03/03	<b>netss record deleted in Wk 1, 2004</b>	
NJ	Middlesex Co.	6 year old female	5/12/03	indigenous	USA
MO	Henry Co.	42 year old female	6/26/03	<b>netss record to be deleted per MO</b>	
NJ	Passaic	38 year old	6/20/03	<b>netss record to be deleted per NJ</b>	
NJ	Passaic	25 year old female	7/29/03	<b>netss record to be deleted per NJ</b>	

**Congenital Rubella Syndrome** – No cases have been reported for 2003.

**Mumps** – Three new mumps cases were reported to MMWR during Week 53. As of Week 53, 2003, 197 cases had been reported compared to 270 cases for 2002. Eighty-nine (45%) of the cases were ≤ 15 years of age. Of the 197 cases reported to date, 56 (28%) had unknown case status. Of the 141 cases with known case status, 94 (66%) were confirmed and 47 (33%) were probable. Of the 124 cases with known import status, 116 (93%) were indigenous and 8 (6%) were imports. Of the 129 cases with known race, 97 (75%) were Caucasian, 2 (2%) were Native American/Alaskan Native, 19 (15%) were Asian/Pacific Islander, 6 (5%) were African American, and 5 (3%) were other. Of the 136 cases with known ethnicity, 41 (30%) were reported as Hispanic.